

File # 11038

IEG/196-69
17 June 1969

MEMORANDUM FOR: Executive Director, WPIC

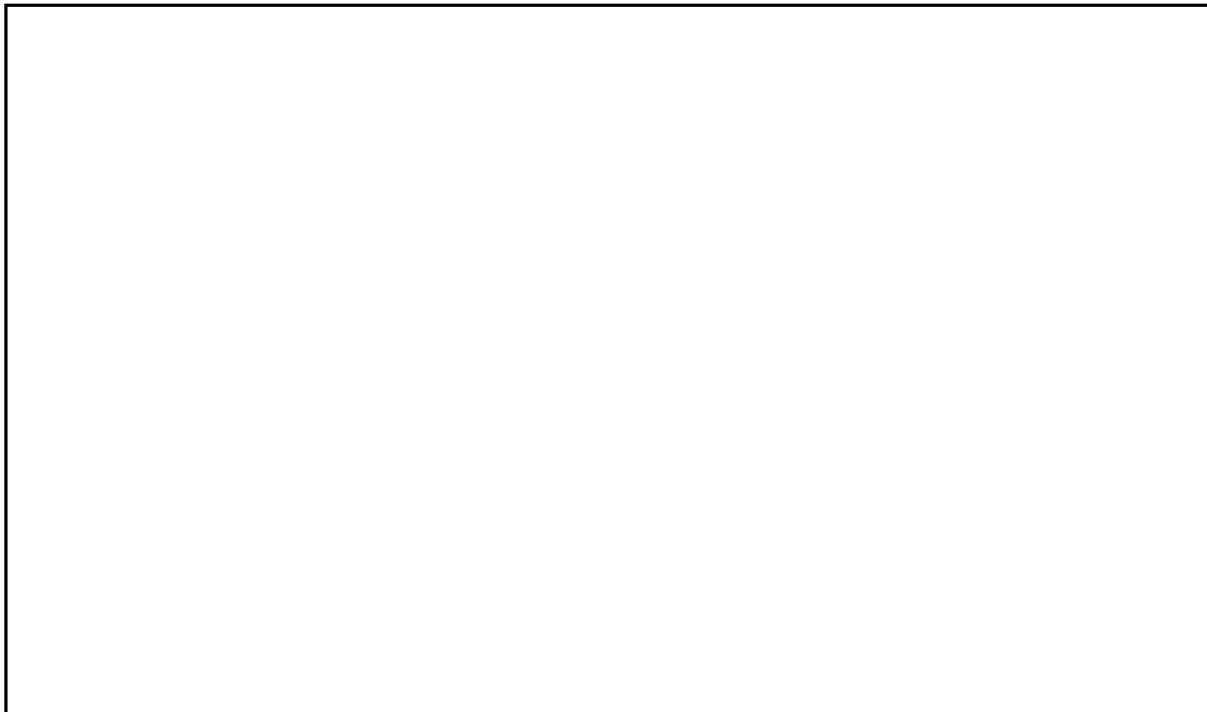
SUBJECT: IEG Response to Follow-Up Actions to H&D Trip

REFERENCE: [redacted] and Attachment to [redacted] 23 May 1969

1. The Imagery Exploitation Group has reviewed the referenced memorandum and submits the following information:

a. Selection and Training of HPSC Operators.

HPD has given judicious attention to the selection of photogrammetrists to be trained in the operation of the HPSC. In our selection we have considered the experience and background of our personnel in relation to the characteristics of the HPSC and the importance to be placed upon its performance. A resume of the background of the 3 photogrammetrists selected appears below.



Included in the contract with [redacted] is a provision for the preparation of an operators manual and the training of a small

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order of personnel to operate the instrument. [] is currently in process of preparing the operators manual and has consulted with FID as to its content. Current plans for training include a period of several days instruction at the [] facility prior to dismantling the instrument for shipment to NPIC. A more detailed instruction in the operation of the instrument will be conducted in [] during the check-out and acceptance of the instrument. Approximately 2 weeks will be devoted to this detailed instruction.

b. Alternative Proposal for Location of the HPSC.

The advantages of locating the instrument at the [] facility on the West Coast include the more ready availability of maintenance services by [] personnel and the avoidance of having to move the instrument across the country and expensive site preparation within []. The disadvantages of not having the instrument located within [] are numerous and significantly out weigh the few advantages. The biggest disadvantage is related to security which includes providing a secure area with the necessary around the clock guard service. Also there would be the problem of communication between NPIC and the West Coast location in providing project material and instructions plus the necessary photography from which to measure. A courier would be required to transport film and project material to and from the remote site. The instrument could not be utilized in support of 1st and 2nd phase reporting because of the time delay due to its location. It would be necessary to station at least 2 photogrammetrists at the instrument site. While the nearness to [] maintenance service would be an advantage, this would only save the travel and per diem costs, the actual maintenance cost being identical regardless of location. Also, day-to-day maintenance could not be conducted by NPIC maintenance personnel but would have to be performed by [] personnel which undoubtedly would be more expensive. In addition, there would be space rental costs incurred by leaving the instrument at the [] facility. While not anticipated, there is always the question what would NPIC do if [] went out of business or decided not to continue providing space for the instrument at their facility, since this instrument is expected to remain in use for many years. Lastly, we should not forget the interest there will be in "showing off" the instrument to visitors after all of the publicity it has received.

c. Computer Programming for the HPSC.

There are two completely distinct and separate computer programming functions relating to the HPSC. First there is programming for the [] computer which is an integral part of the instrument. The purpose of this computer is solely to aid in the operation of the instrument. This computer maintains stereo integrity between the 2 stages of the comparators. Included in

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25X1 the contract with [] is the preparation of computer programs for
25X1 operation of the instrument utilizing photography from current
25X1 collection systems. NPIC has been furnishing math models and
25X1 other pertinent data to [] who has nearly completed the neces-
sary computer programs. One individual from PHD and one from
IEG/ABSD are following this development and are scheduled to
make a visit to the [] plant in July when [] will be conducting
tests of these programs on the instrument. While it will require
considerable time for the NPIC representatives to acquire suffi-
cient knowledge to independently write a computer program for the
[] computer, they will be sufficiently knowledgeable to make
minor modifications to the programs being furnished by []. Whether
it will be more feasible to acquire the expertise in-house to prepare
necessary programs for future collection systems or to contract out
for this service has not yet been determined. When IEG initially
assigned personnel to work with [] in developing the computer
programs, PSG/AID was invited to participate, however, they declined.
The second computer programming effort necessary for utilization of
the HPSC is in the reduction of image measurements to ground distances,
which is identical to that involved in all other comparator instruments
in use by PHD. The appropriate interface to permit the coordinate
readout of the instrument to tie-in with NPIC's 494 computer is in-
cluded in the design of the HPSC. The data reduction programs currently
in use in NPIC with the present comparators will also reduce the memo ?
measurements generated on the HPSC. PHD is currently conducting
performance tests on 2 stereo mensuration programs which will be
necessary for utilizing the stereo measuring capability of the HPSC
as well as that of other stereo instruments in PHD's inventory. The
results of testing today indicate very promising results and it is
anticipated that within 2 or 3 months they will be acceptable for
production use. There does not appear to be any serious computer
programming problem either in relation to the [] computer being
provided under the contract with [] or the data reduction programs
provided by AID.

25X1 2. In conclusion the IEG has selected three individuals from the
Photogrammetry Division for training in the operation of the HPSC and
recommends that the High Precision Stereo Comparator be installed in
[]

25X1 []
Chief, Imagery Exploitation Group,
NPIC

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